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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/556,132	11/15/2006	Bernd Bruchmann	280143US0PCT	2494	
22859 7590 1029/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			LEONARD, MICHAEL L		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			4131		
			NOTIFICATION DATE	DELIVERY MODE	
			10/29/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/556,132 BRUCHMANN ET AL. Office Action Summary Examiner Art Unit MICHAEL LEONARD 4131 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 November 2006. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 02/02/2006

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 10 provides for the use of the dendritic or hyperbranched polyurethane,

but, since the claim does not set forth any steps involved in the method/process, it is

unclear what method/process applicant is intending to encompass. A claim is indefinite

where it merely recites a use without any active, positive steps delimiting how this use is

actually practiced.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 10 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*. *Ltd.* v. *Brenner*. 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

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Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-20 are rejected under 35 U.S.C. 102 (b) as being anticipated by WO 01/16203 to Nakamura et al (Nakamura). The column and line numbers recited in the detailed action are from the English language equivalent: U.S. Patent Pub. No. 2003/0225239 to Nakamura et al.

As to claims 1-3, 8-10, and 19-20, Nakamura discloses a process of producing polyurethane that include reacting polyols having two hydroxyl groups (Page 4, Paragraph 0060) and a tertiary amine group (Page 4, Paragraph 0062) with polyisocyanates (Page 5, Paragraph 0066). The resulting reaction yielded a urethane prepolymer having terminal isocyanate and hydroxyl groups (Page 4, Paragraph 0048, Page 12, and Paragraph 0120). The prepolymer was further reacted with polyamines containing amino groups and hydroxyl groups (Page 5, Paragraph 0077). Nakamura further discloses a dendrimer having terminal primary or secondary amino groups that was used as the polyamine (Page 5, Paragraph 0079), which would produce a hyperbranched or dendritic polyurethane. Nakamura further discloses wherein the amino compound is a star-like or comb-branched aliphatic polyamino compound (Page 5, Paragraph 0079). Nakamura further discloses polyurethane resin having terminal hydroxyl groups (Page 13, Paragraph 0147).

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As to claims 4-6, and 11-13, Nakamura discloses a process of making the diols or polyols used wherein the polyol is made by reacting an unsaturated compound chosen from (meth)acrylic alkyl group-containing unsaturated compound (Page 9, Paragraph 0085). Nakamura further discloses that the unsaturated compounds containing hydroxyl groups such as 2-hydroxylethyl(meth)acrylate (Page 10, Paragraph 0101). Nakamura further discloses that the amino compound reacted with the unsaturated compound be an aliphatic diamine having hydroxyl groups in the molecule such as 2-hydroxylethyl ethylene diamine and the like (Page 5, Paragraph 0077).

As to claims 7 and 14-18, Nakamura discloses diols and polyols of similar formulation to the claimed elements (Page 5, Paragraph 0077, Page 10, and Paragraph 0101). Nakamura does not disclose the reactivity of the hydroxyl-containing groups. The Office realizes that all of the claimed effects or physical properties are not positively stated by the reference. However, the reference teaches all of the claimed ingredients. Therefore, the claimed effects and physical properties, i.e. hydroxyl reactivity towards isocyanate would implicitly be achieved by a polyol with all the claimed ingredients.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL LEONARD whose telephone number is (571)270-7450. The examiner can normally be reached on Monday to Friday, 8:00am EST to 5:00pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on 5712721376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL LEONARD/ Examiner, Art Unit 4131

/David R. Sample/ Supervisory Patent Examiner, Art Unit 4131